



Whitley GIS 9261304 10

AUTHORIZATION TO PROCEED

PROJECT NAME: PM & QC for DTM and Contours

In accordance with Paragraph 3 of the Professional Services Agreement between Owner and Schneider, dated July 18, 2002, The Schneider Corporation is hereby authorized to proceed on the following phases of the project:

☒ **Fixed Fee Project:**

Project Management & Quality Control for Digital Terrain Mapping (DTM) and Contours

\$12,000.00

Scope of Work

Services

The intent of services provided under this contract is to assist Owner with the development and maintenance of the County's DTM and Contour generation. This may include technical support, quality assurance/quality control (QA/QC), and the generation of QA reports and summaries.

Project Management:

Schneider will manage the DTM and Contour generation project for Owner. This phase includes the following tasks:

- Assuming the role of technical point of contact with the selected vendor.
- Receive, review, and help with acceptance of all products under the selected vendor's contract.
- Owner's Designated Representative will be copied on all correspondence between Schneider and the selected vendor.

DTM and Contour Quality Control:

Schneider will conduct Quality Control procedures for the DTM and Contour generation project for Owner. This phase includes the following tasks:

- Schneider will accept delivery of the contour features covering Whitley County from the selected vendor on DVD, in Windows format. The files will be delivered in ArcGIS shapefiles and/or AutoCAD drawings.
- Schneider will ensure consistency in data content and adherence to scope and database schema as set forth in the contract with the selected vendor.
- Schneider will ensure continuity of the data collection effort to support generation of GIS datasets. Linear datasets will be checked for correct segmentation, connectivity, and line quality. Any polygonal datasets will be built to check polygon closure.
- Schneider will ensure adherence of data sets to the following: Quality Control elements: Edge matching, Common Boundaries, Point Duplication, Connectivity, Line Quality, Segmentation, Polygon Closure, Line Criteria, and Topology.
- Schneider will verify that the contour information adheres to the contract specifications on issues such as, but not limited to, adequate density of spot elevations; proper delineation of depression areas; and the location, size and placement of contour elevations.
- Schneider will develop an automated routine to compare sampled GPS collected check points (containing X, Y, and Z coordinates) to the DTM and/or contour data layer.

- Schneider will prepare a statistical analysis of the conformity of a number of points throughout the County to 'National Map Accuracy Standards.' The points provided will contain X, Y, and Z coordinates and is intended to verify the accuracy and quality of the contour information and its conformity to the contract specifications.
- Errors or anomalies on DTM and Contours will be marked in an ArcGIS project file that contains the photo index. These marks will contain descriptions of the identified problems. This project file will be submitted to Owner and the selected vendor for discussion to determine the extent of correction needed. Schneider will then manage the revision process for Owner, which will include reviewing products that are edited until they are acceptable.

Surveying:

As part of the QC effort, The Schneider Corporation will provide a 2-man survey crew for 2 working days to perform GPS data collection of coordinate points. The crew will set Mag-Nails at strategic, evenly spaced locations and obtain coordinates and elevations of each. These values will be based on and in the same system as those previously surveyed for Whitley County by Schneider. The survey crew will obtain as many GPS locations as possible via a mobile GPS base station utilizing an internet RTK correction connection in this 2 day period with an expected total amount of 80 to 100 points.

Participation by Local Officials

To ensure that the above products and services are provided in an accurate, timely, and comprehensive manner, Whitley County is expected to provide to The Schneider Corporation at no cost:

- Originals or high quality copies of available maps, documents, and database files as needed by The Schneider Corporation in order to prepare the digital data sets or other services previously specified.
- Staff time as necessary to locate, collect, and organize source documents; review digital data products for accuracy and completeness; and respond to The Schneider Corporation requests for data and system information.
- Any other materials or services judged by mutual agreement to be appropriate for the Whitley County GIS project.

Subcontractors

The Schneider Corporation will not subcontract out any portion of the GIS data conversion, or other aspects of the products and/or services related to these tasks.

Cost

Total cost of products and services: \$12,000.00

Project Length and Completion

All QA/QC reports/summaries will be completed by Schneider and delivered to GRW and Whitley County within 30 days of receipt of the data deliveries from GRW. The Schneider Corporation will not be liable for delayed performance caused by the failure of local project officials, agents of the local project officials, or any County subcontractor to supply to The Schneider Corporation data or services in a timely manner; or any other reasons or causes not the fault of The Schneider Corporation.

For OWNER

By Tom Rethlak
 Print TOM RETHLAK
 Title CH. COMMISSIONERS
 Date 2/6/06

The Schneider Corporation

By Jimmy West
 Print Jimmy West
 Title GIS Project Manager
 Date February 3, 2006